## Monitoring Data Record

Project Title: B-3856 (Br. #335 over Mud Creek) COE Action ID: 2007-1871-345						
Stream Name: UT's to Mud Creek (Sites 1 & 3)  DWQ Numbers: 070798						
City, County and other Location Information: Henderson County, Bridge No. 335 over						
Mud Creek and approaches on SR 1238 (Pearl Lane)						
Date Construction Completed: August 2008						
Visual Monitoring Yearly: (1) of 3						
Ecoregion: 8 digit HUC unit: 06010105						
USGS Quad Name and Coordinates:						
Rosgen Classification:						
Length of Project: Site 1: 215 ft. & Site 3: 165 ft. (Total 380 ft.)						
Urban or Rural: Rural Watershed Size:						
Monitoring DATA collected by: M. Green and J.Young Date: 8/10/09						
Applicant Information:						
Name: NCDOT Roadside Environmental Unit						
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610						
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov						
Consultant Information:						
Name:						
Address:						
Telephone Number: Email address:						
Project Status: Complete						
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Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level Monitoring Level 1 requires completion of Section 1, Section 2 and Section 3  Permit States: The permittee will visually monitor the vegetative plantings to assess and ensure complete stabilization of the mitigation stream segments. The monitoring shall be conducted annually for a minimum of three (3) years after final planting. Photo						
documentation should be utilized to document the success of the riparian vegetation and						
the results submitted in a final report to DWQ within sixty (60) days after completing the						
monitoring. After three (3) years a site visit shall be conducted by DWQ staff to "close						
out" the mitigation site.						
Section 1. PHOTO REFERENCE SITES						
Total number of reference photo locations at this site: Site 1: 3 photo point						
locations, 2 photos at each location Site 3: 3 photo point locations, 2 photos at each						
location.						
Dates reference photos have been taken at this site: 8/10/09						
Individual from whom additional photos can be obtained (name, address, phone):						
Individual from whom additional photos can be obtained (name, address, phone):  Other Information relative to site photo reference: A site map with approximate photo point						

If required to complete Level 3 monitoring only stop here; otherwise,

# Section 2. PLANT SURVIVAL Attach plan sheet indicating reference photos. Identify specific problem areas (missing, stressed, damaged or dead plantings): Estimated causes, and proposed/required remedial action: ADDITIONAL COMMENTS: Seedlings noted on the streambank and in the floodplain consisted of black willow, silky dogwood, tulip poplar and tag alder. Other vegetation noted consisted of Juncus sp., jewelweed, sedge, pokeberry, lespedeza, and various grasses. NCDOT will continue to monitor vegetation at these two stream relocations.

If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

This is the I" year of monitoring for the Unnamed Tributaries to Mud Creek. Site I had experienced some
localized bank scouring along the upper portion of the stream but the channel bed appears to be holding
grade. Site 3 appears to be stable throughout the entire length of the stream relocation. NCDOT will
continue to monitor the Unnamed Tributaries to Mud Creek.

Date	Station	Station	Station	Station	Station
Inspected	Number	Number	Number	Number	Number
8/10/09	11+00 (Site 1)				
Structure					
Type					
Is water					
piping					
through or					
around					
structure?					
Head cut or					
down cut					
present?					
Bank or scour	Localized				
erosion	Bank				
present?	Scouring				
Other					
problems					
noted?					

# Site 1



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

# Site 3



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

